Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Currently Amended) An isolated human antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), comprising a heavy chain and a light chain, wherein the heavy chain comprises a heavy chain variable region comprising an amino acid sequence as set forth in any of SEQ ID NO: 10, SEQ ID NO: 14, or SEQ ID NO: 16, or an antigen-binding or an immunologically functional immunoglobulin fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 63, SEQ ID NO: 66, and SEQ ID NO: 69.
- 2. (Currently Amended) An isolated human antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), comprising a heavy chain and a light chain, wherein the light chain comprises a light chain variable region comprising an amino acid sequence as set forth in any of SEQ ID NO: 12 or SEQ ID NO: 18, or an antigen-binding or an immunologically functional immunoglobulin fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 71, SEQ ID NO: 73, and SEQ ID NO: 75.

3-9. (Canceled)

10. (Currently Amended) The An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), wherein the antibody of claim 5, wherein the heavy chain comprises a heavy chain variable region comprising having an amino acid sequence as set forth in SEQ ID NO: 16, or an antigen-binding fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 63, SEQ ID NO:66, and SEQ ID NO: 69 and or an immunologically functional immunoglobulin fragment thereof, and the light chain comprises a light chain variable region comprising having an amino acid sequence as set forth in SEQ ID NO: 18, or an antigen-binding fragment thereof, or an immunologically functional immunoglobulin fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 71, SEQ ID NO: 73, and SEQ ID NO: 75.

11-31. (Canceled)

- 32. (Currently Amended) The antibody of claim 1, 2, or 10, 3, 4, 5, 12, or 25, wherein the heavy chain and light chain are connected by a flexible linker to form a single-chain antibody.
- 33. (Original) The antibody of claim 32, which is a single-chain Fv antibody.
- 34. (Currently Amended) The antibody of claim 1, 2, or 10,3, 4, 5, 12, or 25, which is a Fab antibody fragment.
- 35. (Currently Amended) The antibody of claim 1, 2, or 10,3, 4, 5, 12, or 25, which is Fab' antibody fragment.
- 36. (Currently Amended) The antibody of claim 1, 2, or 10,3, 4, 5, 12, or 25, which is a (Fab')₂ antibody fragment.
- 37. (Currently Amended) The antibody of claim 1, 2, or 10, 3, 4, 5, 12, or 25, wherein the antibody is a fully human antibody.
- 38. (Currently Amended) The antibody of claim 1, 2, or 10, 3, 4, 5, 12, or 25, wherein the antibody inhibits binding of IL-1 to its receptor.
- 39-45. (Canceled)
- 46. (Currently Amended) An isolated human antibody comprising:
 - a. human heavy chain framework regions, a human heavy chain CDR1 region comprising SEQ ID NO: 63, a human heavy chain CDR2 region comprising SEQ ID NO: 66, and a human heavy chain CDR3 region comprising, wherein the human heavy chain CDR3 region has the amino acid sequence of SEQ ID NO: 67, SEQ ID NO: 68, or SEQ ID NO: 69; and
 - b. human light chain framework regions, a human light chain CDR1 region comprising SEQ ID NO: 71, a human light chain CDR2 region comprising SEQ ID NO: 73, and a human light chain CDR3 region comprising, wherein the human light chain CDR3

region has the amino acid sequence of SEQ ID NO: 74 or SEQ ID NO: 75; wherein the antibody specifically binds to interleukin-1 receptor type 1 (IL-1R1).

47.-56. (Canceled)

- 57. (Currently Amended) The antibody of claim 510, which is an IgG2 antibody.
- 58. (Currently Amended) The antibody of claim <u>510</u>, which binds specifically to the polypeptide <u>amino acid sequence</u> of SEQ ID NO: 76.
- 59. (Currently Amended) The antibody of claim 510, which wherein the antibody binds specifically to a region to a portion of the amino acid sequence of IL-1R1 that, wherein the portion of the amino acid sequence to which the antibody specifically binds comprises the amino acid sequence YSV.

60-61. (Canceled)

- 62. (New) A composition comprising a pharmaceutically acceptable carrier, excipient or diluent, and the antibody of claim 10.
- 63. (New) A pharmaceutical composition comprising a pharmaceutically acceptable carrier, excipient or diluent and a therapeutically effective amount of the antibody of claim 10.
- 64. (New) An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), comprising a heavy chain and a light chain, wherein the heavy chain comprises a heavy chain variable region comprising the amino acid sequence of SEQ ID NO: 80, or an antigen-binding fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 63, SEQ ID NO: 66, and SEQ ID NO: 69.
- 65. (New) An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), comprising a heavy chain and a light chain, wherein the light chain comprises a light chain variable region comprising the amino acid sequence of SEQ ID NO: 81, or an antigen-binding fragment

thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 71, SEQ ID NO: 73, and SEQ ID NO: 75.

- 66. (New) An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), wherein the antibody comprises a heavy chain variable region comprising the amino acid sequence of-SEQ ID NO: 80, or an antigen-binding fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 63, SEQ ID NO:66, and SEQ ID NO: 69; and a light chain variable region comprising the amino acid sequence of SEQ ID NO: 81, or an antigen-binding fragment thereof, wherein the antigen-binding fragment comprises at least SEQ ID NO: 71, SEQ ID NO: 73, and SEQ ID NO: 75.
- 67. (New) An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), comprising a heavy chain and a light chain, wherein the heavy chain comprises a heavy chain variable region comprising SEQ ID NO: 80.
- 68. (New) An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), comprising a heavy chain and a light chain, wherein the light chain comprises a light chain variable region comprising SEQ ID NO: 81.
- 69. (New) An isolated antibody that specifically binds interleukin-1 receptor type 1 (IL-1R1), wherein the antibody comprises a heavy chain variable region comprising SEQ ID NO: 80, and a light chain variable region comprising SEQ ID NO: 81.
- 70. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 wherein the heavy chain and light chain are connected by a flexible linker to form a single-chain antibody.
- 71. (New) The antibody of claim 70, which is a single-chain Fv antibody.
- 72. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 which is a Fab antibody fragment.

- 73. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 which is Fab' antibody fragment.
- 74. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 which is a (Fab')₂ antibody fragment.
- 75. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 wherein the antibody is a fully human antibody.
- 76. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 wherein the antibody inhibits binding of IL-1 to its receptor.
- 77. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 which is an IgG2 antibody.
- 78. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 which binds specifically to the amino acid sequence of SEQ ID NO: 76.
- 79. (New) The antibody of any of claims 46, 64, 65, 66, 67, 68, or 69 wherein the antibody binds specifically to a portion of the amino acid sequence of IL-1R1, wherein the portion of the amino acid sequence to which the antibody specifically binds comprises the amino acid sequence YSV.
- 80. (New) A composition comprising a pharmaceutically acceptable carrier, excipient or diluent, and the antibody of any of claims 46, 64, 65, 66, 67, 68, or 69.
- 81. (New) A pharmaceutical composition comprising a pharmaceutically acceptable carrier, excipient or diluent and a therapeutically effective amount of the antibody of any of claims 46, 64, 65, 66, 67, 68, or 69.